

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings of claims presented in the application:

1. (Currently amended) An antimicrobial composition comprising a synergistic antimicrobial effective amount of a mixture of:

- (a) a first component including one or more aldehyde donor;
- (b) a second component including a stabilizer selected from the group consisting of dimethylhydantoin, derivatives of dimethylhydantoin, urea, and derivatives of urea; and
- (c) a third component including a dehydroacetic acid or salt thereof.

2. (Original) The composition of claim 1 wherein the dehydroacetic acid salt is dehydroacetic acid sodium salt.

3. (Currently amended) The composition of claim 1 wherein the aldehyde donor is an alkanol-substituted ~~dimethylhydantoin~~ dimethylhydantoin selected from the group consisting of 1,3-dimethylol-5,5-dimethylhydantoin, 1-methylol-5,5-dimethylhydantoin, 3-methylol-5,5-dimethylhydantoin, 1-methylol-3-methyloloxymethylmethylene-5,5-dimethylhydantoin, 1,3-dimethyloloxymethylmethylene-5,5-dimethylhydantoin, or mixtures thereof.

4. (Currently amended) The composition of claim 3, wherein the alkanol-substituted ~~dimethylhydantoin~~ dimethylhydantoin is a mixture of dimethyloldimethylhydantoin and monomethyloldimethylhydantoin.

5. (Withdrawn-currently amended) The composition of claim 1, wherein the aldehyde donor is selected from the group consisting of imidazolidinyl urea, Quaternium-15, ~~diazolidinyl~~ diazolidinyl urea, ~~bromonitropropane diol~~ bromonitropropanediol, methenamine, 5-bromo-5-nitro-1,3-dioxane, sodium hydroxymethylglycinate, formalin, glutaraldehyde, polymethoxy bicyclic oxazolidine, 3,5-dimethyl-1,3,5,2H-tetrahydrothiadiazine-2-thione, hexahydro-1,3,5-tris(2-hydroxyethyl)triazine, ~~hexahydro~~ hexahydro-1,3,5-triethyl-s-triazine, methylolhydantoins, ~~tetrakis(hydroxymethyl)phosphonium~~ tetrakis(hydroxymethyl)phosphonium sulfate, or mixtures thereof.

6. (Currently amended) The composition of claim 1 wherein the stabilizer is ~~dimethyl hydantoin~~ dimethylhydantoin or derivative thereof.

7. (Original) The composition of claim 1, wherein the mixture is substantially free of iodine.

8. (Original) The composition of claim 1, wherein the mixture has a free formaldehyde concentration of less than 0.2% by weight, based on 100% weight of the mixture.

9. (Original) The composition of claim 1 wherein the first component is present in the mixture in an amount of between about 20% to about 95% by weight, based on 100% by weight of the mixture.

10. (Currently amended) The composition of claim 1 wherein the second component is present in the mixture an amount of ~~between about 0% up~~ to about 30% by weight, based on 100% weight of the mixture.

11. (Original) The composition of claim 1 wherein the third component is present in the mixture in an amount of between about 0.5% to about 40% by weight, based on 100% weight of the mixture.

12. (Withdrawn) A method of preparing a synergistic antimicrobial composition which comprises blending 20 to 95 parts of an aldehyde donor and 5 to 20 parts of a stabilizer or derivative thereof to form a homogeneous mixture, mixing a solvent and 1 to 40 parts of DHA or salt thereof with the foregoing mixture to obtain a homogeneous solution containing a total formaldehyde content of at least 2% and less than 0.2% free formaldehyde.

13. (Withdrawn) A method of inhibiting the growth of or reducing microorganisms comprising applying a synergistically antimicrobial effective amount of the composition of claim 1.

14. (Withdrawn) A method of inhibiting the growth of or reducing microorganisms in personal care products such as shampoos, conditioners, rinses, creams, lotions, cosmetics, soaps, dental products such as mouthwash, toothpaste, spray, denture cleaners and denture soaks, baby wipes and other woven and non-woven wipes; household products such as laundry detergents, hard surface cleaners, fabric softeners; and industrial products such as paint, wood, wood treatment, paper board, sheet rock, paper pulp, ceiling tiles, textiles, adhesives, sealants, leather, rope, plastics,

petroleum, fuel, oil, and rubber and metal working fluids; comprising applying an effective amount of the composition of claim 1 to the personal care product, household product, or industrial product.

15. (Withdrawn-currently amended) A method of inhibiting the growth of or reducing microorganisms in industrial systems such as pulp and papermaking processing; water treatment systems; cooling water; swimming pools and spas; decorative fountains; membranes; brewery ~~pastures~~ pasteurizers; toilet and urinal applications; food and beverage sanitation; sporicidal formulations; sterilization of clinical products and surgical instruments, and preservation, including clay slurry and starch, comprising applying an effective amount of the composition of claim 1 to the industrial system.

16. (Withdrawn) A personal care, household, or industrial product comprising the composition of claim 1.

17. (Withdrawn-currently amended) A personal care, household, or industrial product which comprises an effective amount of a mixture of a first component including one or more aldehyde donor, and a second component including ~~dimethyl hydantoin~~ dimethylhydantoin, and a third component including dehydroacetic acid.

18. (Withdrawn) The product of claim 17 wherein the product is a household or industrial product selected from the group consisting of fabric softeners, laundry detergents, hard surface cleaners, paint, wood, wood treatment, paper board, sheet rock, paper pulp, ceiling tiles,

textiles, adhesives, sealants, leather, rope, plastics, petroleum, fuel, oil, and rubber and metal working fluids.

19. (Withdrawn) The product of claim 17 wherein the product is a personal care product selected from the group consisting of shampoos, conditioners, rinses, creams, lotions, cosmetics, soaps, mouthwash, toothpaste, spray, denture cleaners and denture soaks, baby wipes and other woven and non-woven wipes.

20. (New) An antimicrobial composition comprising:

- (a) a mixture of dimethyloldimethylhydantoin and monomethyloldimethylhydantoin;
- (b) dimethylhydantoin; and
- (c) dehydroacetic acid or a salt thereof.

21. (New) The antimicrobial composition of claim 20, where the composition has a free formaldehyde concentration less than 0.5% by weight.

22. (New) The antimicrobial composition of claim 20, where the ratio of (a) to (b) is from about 0.05:30 to 30:0.05.

23. (New) The antimicrobial composition of claim 1, wherein the composition is free of isothiazolones.